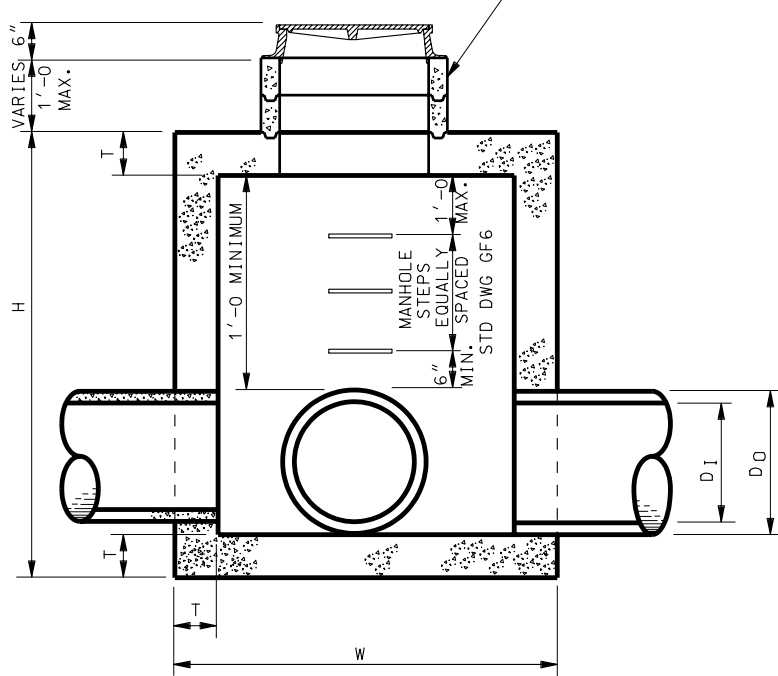


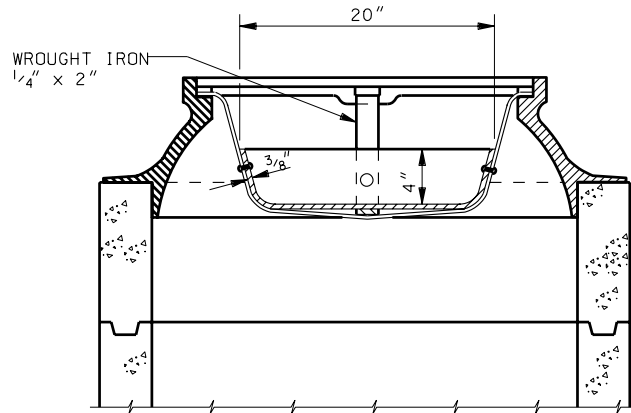
BOX PLAN

FURNISH PRECAST GRADE RINGS IN HEIGHTS OF 4 INCH, 6 INCH OR 8 INCHES. TOTAL HEIGHT OF GRADE RINGS NOT TO EXCEED 1 FOOT.

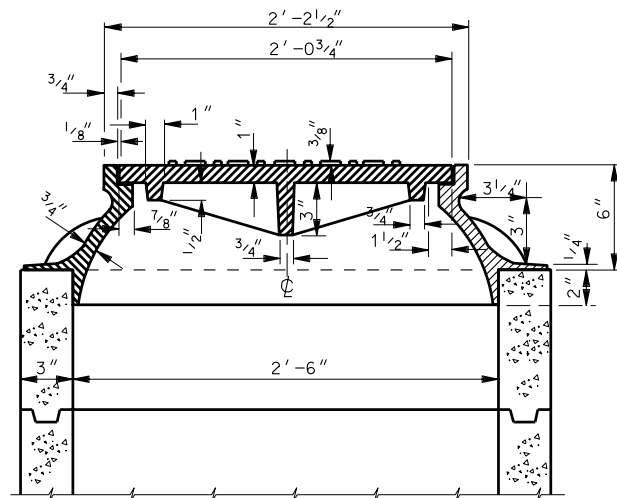
USE PRECAST CONCRETE GRADE RINGS TO ACHIEVE FINISH GRADE ELEVATION. INCLUDE COST IN CONTRACT PRICE FOR MANHOLE FRAME AND COVER.



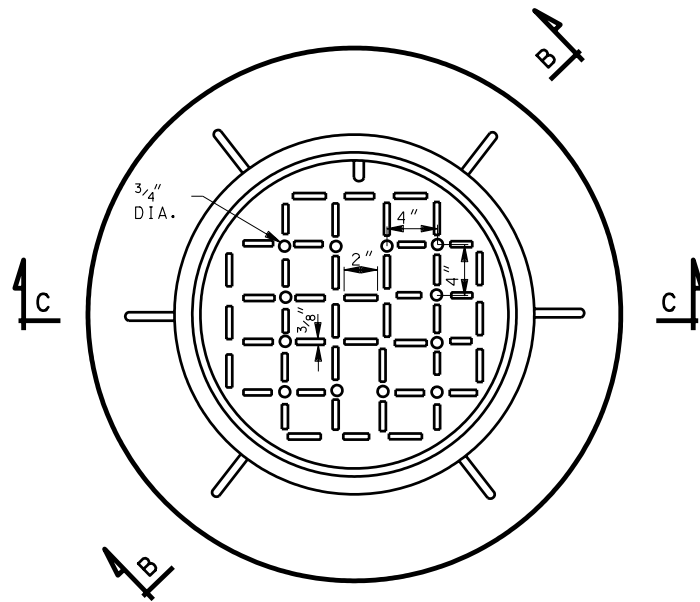
SECTION A-A



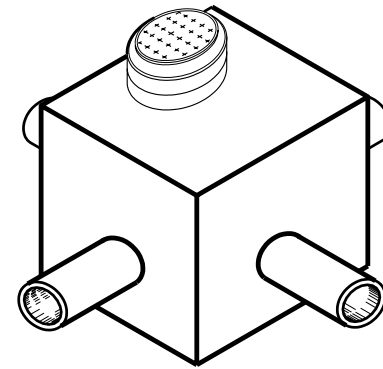
SECTION B-B  
(PAN SECTION - LID REMOVED)



SECTION C-C  
(LID SECTION - PAN REMOVED)



MANHOLE PLAN



ISOMETRIC VIEW

### GENERAL NOTES FOR DB 3A TO DB 3C

1. FOR ALL REINFORCING STEEL USE COATED DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO DESIGNATION M 284 OR M 111 AND M 31 GRADE 60.
2. FURNISH MANHOLE FRAME AND COVER IN EITHER DUCTILE IRON (ASTM A 536 GRADE 60) OR CAST GRAY IRON : AASHTO M 105, CLASS 30B.
3. CHAMFER EXPOSED CORNERS  $\frac{3}{4}$ " EXCEPT WHERE NOTED OTHERWISE.
4. 2 INCHES COVER TO REINFORCING STEEL EXCEPT WHERE NOTED OTHERWISE.
5. USE CONCRETE CLASS AA(AE) FOR ALL CAST-IN-PLACE CONCRETE EXCEPT WHERE NOTED OTHERWISE.
6. USE TYPE II CEMENT ( LOW ALKALI ) UNLESS SPECIFIED OTHERWISE IN THE SPECIAL PROVISIONS.
7. SEE ROADWAY PLANS FOR DETAILS OF INSTALLATION, INCLUDING LOCATION OF UNITS, NUMBER OF UNITS REQUIRED, TYPE OF UNITS, LOCATION AND SIZE OF PIPE(S).
8. SEE STD DWG GF 6 FOR MANHOLE STEP DETAILS.

### DESIGN DATA

MS 18 ( HS 20 ) OR INTERSTATE ALTERNATE LOADING IN ACCORDANCE WITH CURRENT AASHTO AND INTERIM SPECIFICATIONS.

STRUCTURAL CONCRETE:  $f_c = 1400$  psi,  
 $f_s$  ( REINF. ) = 24,000 psi,  
 $n = 8$

### QUANTITIES

STRUCTURAL CONCRETE — SEE SCHEDULE OF INSTALLATION  
REINFORCING STEEL — SEE SCHEDULE OF INSTALLATION

### INDEX OF SHEETS

- 1- SITUATION AND LAYOUT
- 2- SCHEDULE OF INSTALLATION 0 " TO 42" RCP AND 0 " TO 54" CMP
- 3- SCHEDULE OF INSTALLATION 48" TO 72" RCP AND 60" TO 84" CMP

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL  
CHAIRMAN STANDARDS COMMITTEE  
APPROVED  
JAN 01 2005  
DATE  
JAN 01 2005  
DATE  
DEPUTY DIRECTOR

STANDARD DIVERSION  
BOX WITH MANHOLE  
COVER SITUATION  
AND LAYOUT

STANDARD DRAWING TITLE

STD DWG  
DB 3A